Release 6.0   SYSTEM LIFE CYCLE   May 17, 2002

System Life Cycle (SLC) Structure
(Standard Process View)

Pre-Systems Acquisition
  Business Process Review and Improvement
    Identify and Document Initial Requirements
    Review Current Business Process
    Determine Business Performance Requirements - Business Process
       Analysis
    Establish Customer Relationship
  Mission Need Establishment
    Establish Mission Need
  Milestone Review
    Conduct Milestone A Review

Concept and Technology Development
  Program Planning/Management
    Appoint Program Manager
    Perform COTS Availability Research
    Perform COTS Evaluation
    Analyze Acquisition and Implementation Alternatives
    Determine Acquisition Strategy
    Determine Life Cycle Strategy
    Establish Integrated Product Teams
    Maintain Customer Relationship
    Conduct Decision Review
    Establish Project Support
    Determine Program Management Plans
    Determine Integration Management Plans
    Prepare Cost Analysis Requirements Description
    Perform Funds Allocation and Execution
    Estimate Life Cycle Resources
    Perform Economic Analysis/Cost-Benefit Analysis
    Establish Data Standardization Strategy
    Establish Test and Evaluation Strategy
    Establish Risk Management Strategy
    Develop Program Objective Memorandum (POM)
    Develop Budget Submissions
    Establish/Maintain Acquisition Program Baseline
    Perform Release Planning
    Plan Clinger-Cohen Act Compliance
    Manage Program Acquisition
    Establish Program Quality Assurance Strategy
    Manage Program Baseline
  Operational Requirements Definition
    Define Operational Requirements

System Requirements Analysis
Identify User/Customer Organizations *(Release Repeatable)*
Prepare C4I Support Plan
Define Functional Requirements *(Release Repeatable)*
Define Information Assurance/Security Requirements
   (Release Repeatable)
Define External Interface Data Requirements *(Release Repeatable)*
Define Systems Operations Requirements *(Release Repeatable)*
Define Human Factors Requirements *(Release Repeatable)*
Define Environmental Requirements *(Release Repeatable)*
Define External Design Constraints *(Release Repeatable)*
Define Internal Data Requirements *(Release Repeatable)*
Determine System Access Requirements *(Release Repeatable)*
Define Software Distribution and Installation Requirements *(Release
   Repeatable)*
Define Personnel and Logistics Requirements *(Release Repeatable)*
Define Quality Requirements *(Release Repeatable)*
Determine Business Performance Requirements - System
   Requirements Analysis *(Release Repeatable)*
Determine Capacity Requirements *(Release Repeatable)*
Develop Joint Technical Architecture (JTA) Profile *(Release Repeatable)*
Perform System Requirements Review (SRR) *(Release Repeatable)*
System Architecture Design
Define Application Systems Architecture *(Release Repeatable)*
Define and Establish System Security Architecture *(Release Repeatable)*
Conduct Technical Architecture Review *(Release Repeatable)*
Establish Development Environment *(Release Repeatable)*
Integrate Execution Environment Requirements *(Release Repeatable)*
Establish Execution Environment *(Release Repeatable)*
Information Assurance/Security
Conduct DITSCAP Phase 1, Definition
Milestone Review
Conduct Milestone B Review

System Development and Demonstration
Program Planning/Management
Maintain Customer Relationship
Establish Development Integrated Product Team
Develop Continuity of Operations Plan
Manage Program Acquisition
Estimate Life Cycle Resources
Determine Release Content
Manage Functional Baseline
Perform Program Management Reviews
Conduct Interim Progress Review
Technical Project Planning/Management
Support Development Integrated Product Teams
Coordinate Technical Integration *(Release Repeatable)*
Assess Technical Project Risks *(Release Repeatable)*
Manage Technology/Services Acquisition
Manage Software Quality Assurance
Ensure Configuration Management
Test Planning
Prepare Test Plans *(Release Repeatable)*

System Development   *(Choose Develop OR Purchase/Customize/Integrate)*

Develop
   Identify Integration Requirements

Perform Release Impact Analysis *(Release Repeatable)*
Prepare Software Development Plan
Develop Integrated Software Architecture *(Release Repeatable)*
Perform Application Development
Produce Documentation
Perform Development Cycle Review
Prepare Application Release Checklist *(Release Repeatable)*
Obtain Implementation Approval
Establish Allocated Baseline
Conduct Release Review *(Release Repeatable)*
Perform SQA Audit of Product
Perform SQA Review of Process

Purchase/Customize/Integrate
Identify Integration Requirements
Perform Release Impact Analysis *(Release Repeatable)*
Prepare Software Development Plan
Develop Integrated Software Architecture *(Release Repeatable)*
Determine COTS Customization Requirements *(Release Repeatable)*
Determine COTS Modification Requirements *(Release Repeatable)*
Perform COTS Customization *(Release Repeatable)*
Modify COTS
Produce Documentation
Perform Development Cycle Review
Prepare Application Release Checklist *(Release Repeatable)*
Obtain Implementation Approval
Establish Allocated Baseline
Conduct Release Review *(Release Repeatable)*
Perform SQA Audit of Product
Perform SQA Review of Process

Deployment Planning
Establish Continuity of Operations Capability
Establish Transition Strategy *(Release Repeatable)*
Prepare Product Delivery and Installation Plans *(Release Repeatable)*
Issue User Advisory *(Release Repeatable)*
Prepare User Training Plans *(Release Repeatable)*
Produce User Class Materials *(Release Repeatable)*

Developmental Test and Evaluation
Train Test Users *(Release Repeatable)*
Prepare Test Schedule *(Release Repeatable)*
Develop Test Scripts and Test Data *(Release Repeatable)*
Conduct Testing Peer Review *(Release Repeatable)*
Build Application Test Environment *(Release Repeatable)*
Conduct Test Readiness Review *(Release Repeatable)*
Perform Tests *(Release Repeatable)*
Approve and Certify Test Results *(Release Repeatable)*

Operational Test and Evaluation
Train Test Users *(Release Repeatable)*
Prepare Test Schedule *(Release Repeatable)*
Develop Test Scripts and Test Data *(Release Repeatable)*
Conduct Testing Peer Review *(Release Repeatable)*
Build Application Test Environment *(Release Repeatable)*
Conduct Test Readiness Review *(Release Repeatable)*
Perform Tests *(Release Repeatable)*
Approve and Certify Test Results *(Release Repeatable)*

Information Assurance/Security
Conduct DITSCAP Phase 2, Verification
Conduct DITSCAP Phase 3, Validation

Milestone Review
Conduct Milestone C Review *(Release Repeatable)*

Production and Deployment (System Acquisition)
    Information Assurance/Security
        Conduct DITSCAP Phase 4, Security Operations and Compliance Validation
    Deployment and Site Acceptance Test
        Conduct Implementation Readiness Review *(Release Repeatable)*
        Conduct Full-Rate Production Decision Review
        Deliver Release *(Release Repeatable)*
        Convert and Verify Data *(Release Repeatable)*
        Train Users *(Release Repeatable)*
        Conduct Site Acceptance Test *(Release Repeatable)*
        Manage Operational Baseline
        Establish Help Desk Support *(Release Repeatable)*
        Conduct Post Implementation Review *(Release Repeatable)*
        Shut Down Legacy Systems *(Release Repeatable)*
    Operation and Performance Oversight
        Audit Production System
        Measure System Performance

Production and Deployment (System Maintenance)
    Capture and Identify Change Request
        Record and Analyze Problem
        Define Functional Change Requirements
        Define Technical Change Requirements
    Impact Analysis
        Perform Change Impact Analysis *(Release Repeatable)*
        Perform System Requirements Review (Modification)
    Program Planning/Management
        Manage System Operations and Maintenance
        Establish System Quality Assurance Strategy
        Establish Configuration Management Strategy
        Establish System Risk Management Strategy
        Maintain Customer Relationship
    Information Assurance/Security
        Conduct DITSCAP Phase 4, Security Operations and Compliance Validation
    Technical Project Planning/Management
        Support Development Integrated Product Teams
        Coordinate Technical Integration *(Release Repeatable)*
        Assess Technical Project Risks *(Release Repeatable)*
        Manage Technology/Services Acquisition
        Manage Software Quality Assurance
        Ensure Configuration Management
    Release Planning
        Manage System Changes
    System Development
        Identify Integration Requirements
        Prepare Software Development Plan
        Modify Integrated Software Architecture *(Release Repeatable)*
        Perform Application Modification
        Prepare Application Release Checklist *(Release Repeatable)*
        Produce Documentation
        Obtain Implementation Approval
        Establish Release Baseline
        Conduct Release Review *(Release Repeatable)*
        Perform SQA Audit of Product
        Perform SQA Review of Process
    Test Planning

Establish System Test and Evaluation Strategy

Deployment Planning

Establish Transition Strategy *(Release Repeatable)*
Prepare Product Delivery and Installation Plans *(Release Repeatable)*
Issue User Advisory *(Release Repeatable)*
Prepare User Training Plans *(Release Repeatable)*
Produce User Class Materials *(Release Repeatable)*

Developmental Test and Evaluation

Train Test Users *(Release Repeatable)*
Prepare Test Schedule *(Release Repeatable)*
Develop Test Scripts and Test Data *(Release Repeatable)*
Conduct Testing Peer Review *(Release Repeatable)*
Build Application Test Environment *(Release Repeatable)*
Conduct Test Readiness Review *(Release Repeatable)*
Perform Tests *(Release Repeatable)*
Approve and Certify Test Results *(Release Repeatable)*

Operational Test and Evaluation

Train Test Users *(Release Repeatable)*
Prepare Test Schedule *(Release Repeatable)*
Develop Test Scripts and Test Data *(Release Repeatable)*
Conduct Testing Peer Review *(Release Repeatable)*
Build Application Test Environment *(Release Repeatable)*
Conduct Test Readiness Review *(Release Repeatable)*
Perform Tests *(Release Repeatable)*
Approve and Certify Test Results *(Release Repeatable)*

Deployment and Site Acceptance Test

Conduct Implementation Readiness Review *(Release Repeatable)*
Conduct Full-Rate Production Decision Review
Deliver Release *(Release Repeatable)*
Convert and Verify Data *(Release Repeatable)*
Train Users *(Release Repeatable)*
Conduct Site Acceptance Test *(Release Repeatable)*
Manage Operational Baseline
Establish Help Desk Support *(Release Repeatable)*
Conduct Post Implementation Review *(Release Repeatable)*
Shut Down Legacy Systems *(Release Repeatable)*

Operation and Performance Oversight

Audit Production System
Measure System Performance

Please direct questions/comments about this page to the DFAS PAL Administrator at
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